Author Index

AHLSTEDT S., BIRGEGÅRD G., HAMMARSTRÖM I., INTO-MALMBERG M.-B., JONTELL M., DENBURG J. & ÅKERBLOM E. Stimulation of maturation of large immature histamine-containing basophilic cells from human peripheral blood, cord blood and bone marrow, 549
AINSWORTH M. *see* ROOK G.A.W.
ÅKERBLOM E. *see* AHLSTEDT S.
ALMOND N.M. & PARKHOUSE R.M.E. The Ig class distribution of anti-phosphoryl choline responses in mice infected with parasitic nematodes, 633
AMOS H.E. *see* LAYTON G.T.
ANDO I. *see* CRAWFORD D.H.
ARNDT R. *see* THIELE H.-G.
AWARA W., HILLIER K. & JONES D. Kinetics of prostaglandin E_2 and thromboxane A_2 synthesis and suppression of PHA-stimulated peripheral blood mononuclear leucocytes, 557
AZUMA T. *see* SAKATO N.

BANGHAM C.R.M. Passively acquired antibodies to respiratory syncytial virus impair the secondary cytotoxic T-cell response in the neonatal mouse, 37
BARKER S. *see* NUNN J.D.
BARTON R.W. *see* OSBORNE W.R.A.
BATES E.J. *see* NANDOSKAR M.
BELOSEVIC M. & FAUBERT G.M. Killing of *Giardia muris* trophozoites *in vitro* by spleen, mesenteric lymph node and peritoneal cells from susceptible and resistant mice, 269
BERSANI L., COLOTTA F. & MANTOVANI A. Involvement of tumour necrosis factor in monocyte-mediated rapid killing of actinomycin D-pretreated WEHI 164 sarcoma cells, 323
BEVAN D.J. & CHISHOLM P.M. Co-expression of CD4 and CD8 molecules and *de novo* expression of MHC class II antigens on activated rat T cells, 621
BHAKDI S. *see* BORN J.
BIEWENGA J., FABER A., PRONK J.C. & HAAIJMAN J.J. Production and characterization of pepsin fragments of human IgA1 to determine domain-specificity of monoclonal anti-IgA antibodies, 153
BIRGEGÅRD G. *see* AHLSTEDT S.
BOBBITT J.L. *see* SCHEETZ M.E.
BÖHME M.W.J., EVANS D.A., MILES M.A. & HOLBOROW E.J. Occurrence of autoantibodies to intermediate filament proteins in human visceral leishmaniasis and their induction by experimental polyclonal B-cell activation, 583
BORCA M.V., FERNÁNDEZ F.M., SADIR A.M., BRAUN M. & SCHUDEL A.A. Immune response to foot-and-mouth disease virus in a murine experimental model: effective thymus-independent primary and secondary reaction, 261
BORN J. & BHAKDI S. Does complement kill *E. coli* by producing transmural pores?, 139
BOSE R., RECTOR E.S., FISCHER J., TARONNO R. & DELESPESSE G. Production and characterization of mouse monoclonal antibodies to allergenic epitopes on *Lolp*I (Rye I), 309
BOURNE F.J. *see* WILSON A.D.
BOYKO W.J. *see* CREEMERS P.C.
BOYLSTON A.W. & MAY S.J. Human T lymphocytes expressing a defined T-cell antigen receptor family specifically kill the hybridoma that makes the anti-receptor monoclonal antibody, 383
BRAIDA M. & KNOP J. Effect of cyclosporin A on the T-effector and T-suppressor cell response in contact sensitivity, 503
BRANDON M.R. *see* MADDOX J.F.
BRANDT E. *see* PRYJMA J.
BRAUN M. *see* BORCA M.V.
BRETT S.J. & BUTLER R. Resistance to *Mycobacterium lepraemurium* is correlated with the capacity to generate macrophage activating factor(s) in response to mycobacterial antigens *in vitro*, 339
BROLIDEN P.-A. *see* JONDAL M.
BROWN B. *see* WALKER M.R.
BRUCE M.G. & FERGUSON A. The influence of intestinal processing on the immunogenicity and molecular size of absorbed, circulating ovalbumin in mice, 295
BRYS L. *see* SMET E.G.
BUJDOSO R. & MUNRO A.J. The response of T cells to soluble protein antigens and fixed antigen-presenting cells, 51
BUTLER L.D. *see* SCHEETZ M.E.
BUTLER R. *see* BRETT S.J.
BUTTRESS N. *see* MAUDSLEY S.

CALKINS C.E. *see* MACDONALD T.T.
CAMERON R. & WATERFIELD J.D. Delineation of two defects responsible for T-cell hyporesponsiveness to concanavalin A in MRL congenic mice, 187
CAMPBELL P.A. *see* ZIMMERMAN B.T.
CAMPOS-PERERA C., MURGITA R.A., HAUPTMAN S.P. & GRONVIK K.-O. Identification of macromolecular insoluble cold globulin (MICG) as a new marker shared by NK and ADCC cells, but not expressed by NC cells, 101
CANONO B.P. *see* ZIMMERMAN B.T.
CARLSON D.G. *see* SCHEETZ M.E.
CARR M.M., MCVITTIE E., GUY K., GAWKRODGER D.J. & HUNTER J.A.A. MHC class II antigen expression in normal human epidermis, 223
CHAMPION B.R. *see* ROOK G.A.W.
CHISHOLM P.M. *see* BEVAN D.J.
CHOROMANSKI L. & KUHN R.E. Repeated antigenic stimulation overcomes immunosuppression in experimental Chagas' disease, 289
CHOU C.-T. *see* PONSARD D.C.
CINADER B. *see* PONSARD D.C.
CLEM L.W. *see* MILLER N.W.
COLOTTA F. *see* BERSANI L.
COOKE A. *see* HUTCHINGS P.R.
COOLEN J. *see* NOOIJ F.J.M.
CRAWFORD D.H. & ANDO I. EB virus induction is associated with B-cell maturation, 405
CREEMERS P.C., O'SHAUGHNESSY M. & BOYKO W.J. Increased interleukin-2 receptor expression after mitogen stimulation on CD4- and CD8-positive lymphocytes and decreased interleukin-2 production in HTLV-III antibody-positive symptomatic individuals, 627

DE ANGELIS C. *see* GUY K.
DE BAETSELIER P.C. *see* SMET E.G.
DEJOY S.Q. *see* KIM K.J.
DELESPESSE G. *see* BOSE R.
DELESPESSE G. *see* SARFATI M.
DENBURG J. *see* AHLSTEDT S.
DE SMET W. *see* SMET E.G.
DEUTER A. *see* MILLER N.W.
DIAMOND A.G. *see* ECCLES S.J.
DILLON S.B. & MACDONALD T.T. Functional characterization of Con A-responsive Lyt 2-positive mouse small intestinal intraepithelial lymphocytes, 389
DOCHERTY L.J.M. *see* GUY K.
DONNENBERG A.D. *see* ESA A.H.
DUBISKI S. *see* PONSARD D.C.
DUDLER L. *see* PABST R.
DUTIA B.M. *see* HOPKINS J.

ECCLES S.J., TEH H.-S., DIAMOND A.G. & MCMASTER W.R. Differential expression of RT1 class II genes in fibroblast cell lines: recognition by allogeneic and xenogeneic T lymphocytes, 29
EDWARDS A.J. *see* MACATONIA S.E.
ELLIS S.A., SARGENT I.L., REDMAN C.W.G. & MCMICHAEL A.J. Evidence for a novel HLA antigen found on human extravillous trophoblast and a choriocarcinoma cell line, 595
ERNST M. *see* PRYJMA J.
ERROI A. *see* PERI G.
ESA A.H., NOGA S.J., DONNENBERG A.D. & HESS A.D. Immunological heterogeneity of human monocyte subsets prepared by counterflow centrifugation elutriation, 95
ESTES J. *see* MORROW W.J.W.
EVANS D.A. *see* BÖHME M.W.J.

FABER A. *see* BIEWENGA J.
FALINI B. *see* MACDONALD S.M.
FAUBERT G.M. *see* BELOSEVIC M.
FERGUSON A. *see* BRUCE M.G.
FERNÁNDEZ F.M. *see* BORCA M.V.
FERRANTE A. *see* NANDOSKAR M.
FISCHER J. *see* BOSE R.
FLAD H.-D. *see* PRYJMA J.
FLEISCHER B. *see* SCHREZENMEIER H.
FONTEYN C. *see* SARFATI M.
FORMAN S.J. *see* MILLS B.J.
FRAHER L.J. *see* NUNN J.D.
FUJIO H. *see* SAKATO N.
FUJISAWA H. *see* SHINOMIYA N.
FUJITA T. *see* KOIZUMI T.
FURUKAWA S. *see* KIMURA K.

GAULT E.A. *see* HALL E.P.
GAWKRODGER D.J. *see* CARR M.M.
GAZIT E. *see* PASSWELL J.H.
GEFFNER J.R., SEREBRINSKY G. & ISTURIZ M.A. Normal human serum restores the expression of Fcγ receptors in immune complex-blocked human mononuclear cells, 239
GOLAY J.T. Functional B-lymphocyte surface antigens, 1
GREENWOOD M.R. & PARKHOUSE R.M.E. Monoclonal antibody NIM-R3 substitutes for B-cell growth factor, 7
GRONVIK K.-O. *see* CAMPOS-PERERA C.
GUNNARSSON K. *see* TARKOWSKI A.
GUY K., MIDDLETON P.G., DOCHERTY L.J.M., DE ANGELIS C.L. & STEEL C.M. MHC class II antigen and immunoglobuin expression in spontaneous phenotypic variants of the Burkitt's lyphoma cell line Namalwa, 603
GUY K. *see* CARR M.M.

HAAIJMAN J.J. *see* BIEWENGA J.
HALL E.P. & GAULT E.A. Suppression of IgE responses by hyper-immune serum in rats, 577
HAMANN A. *see* THIELE H.-G.
HAMMARSTRÖM I. *see* AHLSTEDT S.
HARDIE D. *see* WALKER M.R.
HARRISON D.K., SPENCE V.A., SWANSON BECK J., LOWE J.G. & WALKER W.F. pH changes in the dermis during the course of the tuberculin skin test, 497
HAUPTMAN S.P. *see* CAMPOS-PERERA C.
HAWES C.S. *see* MUELLER U.W.
HAWKE D.H. *see* MILLS B.J.
VAN DER HEIJDEN F.L. Mucosal lymphocytes in the rat small intestine: phenotypical characterization *in situ*, 397
HENDY G.N. *see* NUNN J.D.
HERRMANN B. *see* MÖLLER P.
HESS A.D. *see* ESA A.H.
HEWISON M. *see* NUNN J.D.
HIGHAM A.D., SELLS R.A. & MARSHALL-CLARKE S. Cyclosporin A has differential effects on the responses of murine B cells to TI antigens and B-cell mitogens, 203
HIJMANS W. *see* LIGTHART G.J.
HILLIER K. *see* AWARA W.
HIND C.R.K. *see* MAUDSLEY S.
HINUMA S., NARUO K., SHIHO O. & TSUKAMOTO K. Characteristics of murine non-specific killer cells induced *in vivo* by recombinant human interleukin-2, 251
HOLBOROW E.J. *see* BÖHME M.W.J.
HOLMDAHL R. *see* SCHEYNIUS A.
HOLMGREN J. *see* LYCKE N.
HOMSY J. *see* MORROW W.J.W.
HOPKINS J., DUTIA B.M. & MCCONNELL I. Monoclonal antibodies to sheep lymphocytes. I. Identification of MHC class II molecules on lymphoid tissue and changes in the level of class II expression on lymph-borne cells following antigen stimulation *in vivo*, 433
HOWARD J.C. *see* YOUSAF N.
HUNT R. *see* LOVELAND B.
HUNT T.C. & ROWLEY A.F. Leukotriene B_4 induces enhanced migration of fish leucocytes *in vitro*, 563
HUNTER J.A.A. *see* CARR M.M.
HURST N. *see* NANDOSKAR M.
HUTCHINGS P.R., VAREY A.M. & COOKE A. Immunological defects in SJL mice, 445

IKEDA M. *see* SHINOMIYA N.
INTO-MALMBERG M.-B. *see* AHLSTEDT S.
ISTURIZ M.A. *see* GEFFNER J.R.
IVANYI J. & SHARP K. Control by H-2 genes of murine antibody responses to protein antigens of *Mycobacterium tuberculosis*, 329

JACOB C.O. & VAERMAN J.P. Induction of rat secretory IgA antibodies against cholera toxin by a synthetic peptide, 129
JEFFERIS R. *see* MAGEED R.A.
JEFFERIS R. *see* WALKER M.R.
JENKINSON E.J. *see* OWEN J.J.T.
JONDAL M., NG J., PATARROYO M. & BROLIDEN P.-A. Phorbol ester regulation of Ca^{2+} flux during natural, lectin and antibody-dependent killing, 347
JONES D. *see* AWARA W.
JONES W.R. *see* MUELLER U.W.
JONTELL M. *see* AHLSTEDT S.
JURETIĆ A. Influence of the combination of intraperitoneal and footpad immunization on anti-H-Y immunological reactivity, 401

KATAKAMI Y. *see* KOIZUMI T.
KATZ D.R. *see* MUKHERJEE S.
KATZ D.R. *see* NUNN J.D.
KAY A.B. *see* MOQBEL R.
KEMP A.S. & TURNER M.W. The role of opsonins in vacuolar sealing and the ingestion of zymosan by human neutrophils, 69
KENDALL M.D. Elemental concentrations within types 2 and 3 epithelial cells of the rat thymus, 491
KIM K.J. & DEJOY S.Q. Con A induction of IgG secretion from a B-lymphoid tumour cell line, A20, 15
KIMURA K., NAKANISHI M., UEDA M., UENO J., NARIUCHI H., FURUKAWA S. & YASUDA T. The effect of immunoglobulin G1 structure on macrophage binding to supported planar lipid monolayers, 235
KINGSTON R. *see* OWEN J.J.T.
KITAMURA H., TSUBOI M. & NAGAKI K. C3-independent immune haemolysis: mechanism of membrane attack complex formation, 147
KLARESKOG L. *see* SCHEYNIUS A.
KNIGHT S.C. *see* MACATONIA S.E.
KNOP J. *see* BRAIDA M.
KOCH F. *see* THIELE H.-G.
KOIZUMI T., NAKAO Y., MATSUI T., KATAKAMI Y., NAKAGAWA T. & FUJITA T. Synergistic induction by calcium ionophore and phorbol ester of interleukin-2 (IL-2) receptor expression, IL-2 production, and proliferation in autoimmune MRL/MP-lpr mice, 43
KÖNIG W. *see* SCHEFFER J.
KONNO-EJIRI H. *see* NITTA T.
KUHN R.E. *see* CHOROMANSKI L.
KURRLE R. *see* SCHREZENMEIER H.

LAMB J.R. *see* YOUNG D.B.
LÄMMLER B. *see* MÖLLER P.
LAYTON G.T., STANWORTH D.R. & AMOS H.E. Factors influencing the immunogenicity of the haptenic drug chlorhexidine in mice. II. The

role of the carrier and adjuvants in the induction of IgE and IgG anti-hapten responses, 459
LEVY J.A. *see* MORROW W.J.W.
LIGTHART G.J., VAN VLOKHOVEN P.C., SCHUIT H.R.E. & HIJMANS W. The expanded null cell compartment in ageing: increase in the number of natural killer cells and changes in T-cell and NK-cell subsets in human blood, 353
LING N.R. *see* WALKER M.R.
LOVELAND B., HUNT R. & MALKOVSKÝ M. Autologous lymphoid cells exposed to recombinant interleukin-2 *in vitro* in the absence of antigen can induce the rejection of long-term tolerated skin allografts, 159
LOWE J.A. *see* WALKER M.R.
LOWE J.G. *see* HARRISON D.K.
LYCKE N. & HOLMGREN J. Strong adjuvant properties of cholera toxin on gut mucosal immune responses to orally presented antigens, 301

MCCONNELL I. *see* HOPKINS J.
MACDONALD A.J. *see* MOQBEL R.
MACDONALD S.M., PULFORD K., FALINI B., MICKLEM K. & MASON D.Y. A monoclonal antibody recognizing the p150/95 leucocyte differentiation antigen, 427
MACDONALD T.T., CALKINS C.E. & ROTHERMEL A.L. Modulation *in vivo* of Lyt 2 antigen expression on T cells by anti-Lyt 2 antibody: effects on Con A-induced unresponsiveness, 181
MACDONALD T.T. *see* DILLON S.B.
MACKAY C.R. *see* MADDOX J.F.
MCMASTER W.R. *see* ECCLES S.J.
MCMICHAEL A.J. *see* ELLIS S.A.
MCVITTIE E. *see* CARR M.M.
MACATONIA S.E., EDWARDS A.J. & KNIGHT S.C. Dendritic cells and the initiation of contact sensitivity to fluorescein isothiocyanate, 509
MADDOX J.F., MACKAY C.R. & BRANDON M.R. Four antigens expressed on most ovine cell types, 631
MAGEED R.A., WALKER M.R. & JEFFERIES R. Restricted light chain subgroup expression on human rheumatoid factor paraproteins determined by monoclonal antibodies, 473
MALKOVSKÝ M. *see* LOVELAND B.
MANTOVANI A. *see* BERSANI L.
MANTOVANI A. *see* PERI G.
MARSHALL-CLARKE S. *see* HIGHAM A.D.
MASON D.Y. *see* MACDONALD S.M.
MATSUI T. *see* KOIZUMI T.
MAUDSLEY S., HIND C.R.K., MUNN E.A., BUTTRESS N. & PEPYS M.B. Isolation and characterization of guinea-pig serum amyloid P component, 317
MAY S.J. *see* BOYLSTON A.W.
MICKLEM K. *see* MACDONALD S.M.
MIDDLETON P.G. *see* GUY K.
MILES M.A. *see* BÖHME M.W.J.
MILLER N.W., DEUTER A. & CLEM L.W. Phylogeny of lymphocyte heterogeneity: the cellular requirements for the mixed leucocyte reaction with channel catfish, 123
MILLS B.J., SHIVELY J.E., MITSKY P.S., HAWKE D.H., FORMAN S.J., WRIGHT C.L. & TODD C.W. Synergy between interleukin-2 and a second factor in the long-term growth of human T cells, 57
MITSKY P.S. *see* MILLS B.J.
MIYASAKA M. *see* PABST R.
MOLDENHAUER G. *see* MÖLLER P.
MÖLLER P., LÄMMLER B., HERRMANN B., OTTO H.F., MOLDENHAUER G. & MOMBURG F. The primary mediastinal clear cell lymphoma of B-cell type has variable defects in MHC antigen expression, 411
MOMBURG F. *see* MÖLLER P.
MOQBEL R., MACDONALD A.J. & KAY A.B. Enhanced granulocyte cytotoxicity by mediators derived from anti-IgE-stimulated human leucocytes, 87
MORROW W.J.W., HOMSY J., SWANSON C.A., OHASHI Y., ESTES J. & LEVY J.A. Dietary fat influences the expression of autoimmune disease in MRL/*lpr*/*lpr* mice, 439
MUELLER U.W., HAWES C.S. & JONES W.R. Cell surface antigens of human trophoblast: definition of an apparently unique system with a monoclonal antibody, 135
MUKHERJEE S., KATZ D.R. & ROOK G.A.W. Differing role of dendritic cells and macrophages in the induction of delayed-type hypersensitivity responses to PPD, 229
MUNN E.A. *see* MAUDSLEY S.
MUNRO A.J. *see* BUJDOSO R.
MURGITA R.A. *see* CAMPOS-PERERA C.

NAGAKI K. *see* KITAMURA H.
NAKAGAWA T. *see* KOIZUMI T.
NAKANISHI M. *see* KIMURA K.
NAKANO M. *see* NITTA T.
NAKAO Y. *see* KOIZUMI T.
NANDOSKAR M., FERRANTE A., BATES E.J., HURST N. & PATON J.C. Inhibition of human monocyte respiratory burst, degranulation, phospholipid methylation and bactericidal activity by pneumolysin, 515
NARIUCHI H. *see* KIMURA K.
NARUO K. *see* HINUMA S.
NEMATO K. *see* NITTA T.
NG J. *see* JONDAL M.
NITTA T., KONNO-EJIRI H., NEMOTO K., OKUMURA S., OZAWA A. & NAKANO M. The roles of interleukins in the synergistic effect of B-cell mitogens with concanavalin A on hydrocortisone-resistant thymic cell proliferation, 209
NOGA S.J. *see* ESA A.H.
NOMOTO K. *see* SHINOMIYA N.
NOOIJ F.J.M., VAN VREESWIJK W. & COOLEN J. Polymorphism for RhT3, a CD3-like cell surface antigen, expressed on rhesus monkey T lymphocytes, 611
NUNN J.D., KATZ D.R., BARKER S., FRAHER L.J., HEWISON M., HENDY G.N. & O'RIORDAN J.L.H. Regulation of human tonsillar T-cell proliferation by the active metabolite of vitamin D_3, 479
NUTMAN T. *see* SARFATI M.

OHASHI Y. *see* MORROW W.J.W.
OKUMURA S. *see* NITTA T.
ORAGO A.S.S. & SOLOMON J.B. Antibody-dependent and -independent cytotoxic activity of spleen cells for *Plasmodium berghei* from susceptible and resistant rats, 283
O'RIORDAN J.L.H. *see* NUNN J.D.
OSBORNE W.R.A. & BARTON R.W. A rat model of purine nucleoside phosphorylase deficiency, 63
O'SHAUGHNESSY M. *see* CREEMERS P.C.
OTTO H.F. *see* MÖLLER P.
OWEN J.J.T., KINGSTON R. & JENKINSON E.J. Generation of cells expressing cytoplasmic and/or surface T-cell receptor β chains during the development of mouse fetal thymus, 23
OZAWA A. *see* NITTA T.

PABST R., MIYASAKA M. & DUDLER L. Numbers and phenotype of lymphocytes emigrating from sheep bone marrow after *in situ* labelling with fluorescein isothiocyanate, 217
PARKHOUSE R.M.E. *see* ALMOND N.M.
PARKHOUSE R.M.E. *see* GREENWOOD M.R.
PASSWELL J.H., SHOR R., GAZIT E. & SHOHAM J. The effects of Con A-induced lymphokines from the T-lymphocyte subpopulations on human leishmaniacidal capacity and H_2O_2 production, 245
PATARROYO M. *see* JONDAL M.
PATON J.C. *see* NANDOSKAR M.
PEPYS M.B. *see* MAUDSLEY S.
PERI G., ROSSI V., TARABOLETTI G., ERROI A. & MANTOVANI A. Ia antigen expression and IL-1 activity in murine tumour-associated macrophages, 527
PONSARD D.C., CINADER B., CHOU C.-T. & DUBISKI S. Characterization of rabbit cells by monoclonal and polyclonal antibodies, 115
PRONK J.C. *see* BIEWENGA J.
PRYJMA J., FLAD H.-D., ERNST M., BRANDT E. & ULMER A.J. Immunoglobulin production of human lymphocytes stimulated by *Staphylococcus aureus* Cowan I and pokeweed mitogen: differential effects of recombinant interleukin-2, 485
PULFORD K. *see* MACDONALD S.M.

RECTOR E.S. *see* BOSE R.
REDMAN C.W.G. *see* ELLIS S.A.
ROOK G.A.W., STEELE J., AINSWORTH M. & CHAMPION B.R. Activation of macrophages to inhibit proliferation of *Mycobacterium tuberculo-*

sis; comparison of the effects of recombinant gamma-interferon on human monocytes and murine peritoneal macrophages, 333
ROOK G.A.W. *see* MUKHERJEE S.
ROSSI V. *see* PERI G.
ROTHERMEL A.L. *see* MACDONALD T.T.
ROWLEY A.F. *see* HUNT T.C.

SADIR A.M. *see* BORCA M.V.
SAKATO N., AZUMA T. & FUJIO H. Fine specificity analysis of idiotype-specific suppressor factors that block a delayed-type hypersensitivity response to M315: evidence supporting a role for somatic mutations in the variable region of the lambda 2 chain of M315, 365
SARFATI M., NUTMAN T., FONTEYN C. & DELESPESSE G. Presence of antigenic determinants common to Fc IgE receptors on human macrophages, T and B lymphocytes and IgE-binding factors, 569
SARGENT I.L. *see* ELLIS S.A.
SCHEETZ M.E., CARLSON D.G., BOBBITT J.L., BUTLER L.D. & ZUCKERMAN S.H. Characterization and specificity of a high titre polyclonal goat anti-murine IL-1 antibody, 535
SCHEFFER J., VOSBECK K. & KÖNIG W. Induction of inflammatory mediators from human polymorphonuclear granulocytes and rat mast cells by haemolysin-positive and -negative *E. coli* strains with different adhesins, 541
SCHEYNIUS A., HOLMDAHL R. & KLARESKOG L. Effects on murine T helper cell proliferation by DTH activated syngeneic epidermal cells, 379
SCHREZENMEIER H., KURRLE R. & FLEISCHER B. Stimulus-dependent triggering or inhibition of cytotoxicity in human cytotoxic T lymphocytes by activators of protein kinase C, 359
SCHUDEL A.A. *see* BORCA M.V.
SCHUIT H.R.E. *see* LIGTHART G.J.
SCHWARTZ M.M. *see* SINGH A.K.
SELLS R.A. *see* HIGHAM A.D.
SEREBRINSKY G. *see* GEFFNER J.R.
SHARP K. *see* IVANYI J.
SHIHO O. *see* HINUMA S.
SHINOMIYA N., TSURU S., TANIGUCHI M., FUJISAWA H., IKEDA M., ZINNAKA Y. & NOMOTO K. Immune protective mechanisms during pregnancy. II. Cell-mediated immunity against *Listeria monocytogenes* in pregnant mice, 373
SHIVELY J.E. *see* MILLS B.J.
SHOHAM J. *see* PASSWELL J.H.
SHOR R. *see* PASSWELL J.H.
SINGH A.K. & SCHWARTZ M.M. Circulatory antigen of Heymann nephritis. II. Isolation of a 70,000 MW antigen from normal rat serum which cross-reacts with Heymann nephritis antigen, 451
SMET E.G., DE SMET W., BRYS L. & DE BAETSELIER P.C. Mab.198: a monoclonal antibody recognizing the complement type 3 receptor (CR3) in the rabbit, 419
SOLOMON A. *see* WALKER M.R.
SOLOMON J.B. Natural cytotoxicity for *Plasmodium berghei in vitro* by spleen cells from susceptible and resistant rats, 277
SOLOMON J.B. *see* ORAGO A.S.S.
SPENCE V.A. *see* HARRISON D.K.
STÅLHANDSKE T. *see* TARKOWSKI A.
STANWORTH D.R. *see* LAYTON G.T.
STEEL C.M. *see* GUY K.
STEELE J. *see* ROOK G.A.W.
STOKES C.R. *see* WILSON A.D.
SWANSON C.A. *see* MORROW W.J.W.
SWANSON BECK J. *see* HARRISON D.K.

TANIGUCHI M. *see* SHINOMIYA N.
TARABOLETTI G. *see* PERI G.
TARKOWSKI A., GUNNARSSON K. & STÅLHANDSKE T. Effects of LS-2616 administration upon the autoimmune disease of (NZB × NZW) F_1 hybrid mice, 589
TARONNO R. *see* BOSE R.
TEH H.-S. *see* ECCLES S.J.
THIELE H.-G., KOCH F., HAMANN A. & ARNDT R. Biochemical characterization of the rat T-cell alloantigen RT-6.2, 195
TODD C.W. *see* MILLS B.J.
TSUBOI M. *see* KITAMURA H.
TSUKAMOTO K. *see* HINUMA S.
TSURU S. *see* SHINOMIYA N.
TURNER M.W. *see* KEMP A.S.

UEDA M. *see* KIMURA K.
UENO J. *see* KIMURA K.
ULMER A.J. *see* PRYJMA J.

VAERMAN J.P. *see* JACOB C.O.
VAREY A.M. *see* HUTCHINGS P.R.
VESSEY A.E. *see* WRAITH D.C.
VAN VLOKHOVEN P.C. *see* LIGTHART G.J.
VOSBECK K. *see* SCHEFFER J.
VAN VREESWIJK W. *see* NOOIJ F.J.M.

WALKER M.R., SOLOMON A., LING N.R., BROWN B., LOWE J.A., HARDIE D. & JEFFERIS R. Immunogenic and antigenic epitopes of immunoglobulins. XVIII. Subpopulations of human lambda chains defined with a panel of monoclonal antibodies, 467
WALKER M.R. *see* MAGEED R.A.
WALKER W.F. *see* HARRISON D.K.
WATERFIELD J.D. *see* CAMERON R.
WILLIAMS B.D. *see* YOUSAF N.
WILSON A.D., STOKES C.R. & BOURNE F.J. Morphology and functional characteristics of isolated porcine intraepithelial lymphocytes, 109
WRAITH D.C. & VESSEY A.E. Influenza virus-specific cytotoxic T-cell recognition: stimulation of nucleoprotein-specific clones with intact antigen, 173
WRIGHT C.L. *see* MILLS B.J.

YASUDA T. *see* KIMURA K.
YOUNG D.B. *see* LAMB J.R. T lymphocytes respond to solid-phase antigen: a novel approach to the molecular analysis of cellular immunity, 167
YOUSAF N., HOWARD J.C. & WILLIAMS B.D. Studies in the rat of antibody-coated and *N*-ethylmaleimide-treated erythrocyte clearance by the spleen. I. Effects of *in vivo* complement activation, 75
YOUSAF N., HOWARD J.C. & WILLIAMS B.D. Studies in the rat of antibody-coated and *N*-ethylmaleimide-treated erythrocyte clearance by the spleen. II. Effects of immune complex infusion, 81

ZIMMERMAN B.T., CANONO B.P. & CAMPBELL P.A. Silica decreases phagocytosis and bactericidal activity of both macrophages and neutrophils *in vitro*, 521
ZINNAKA Y. *see* SHINOMIYA N.
ZUCKERMAN S.H. *see* SCHEETZ M.E.

Subject Index

Activated T cells:
  rat, co-expression of CD4 and CD8 and *de novo* expression of class II antigens, 621
Adjuvant properties:
  of cholera toxin, on mucosal responses to oral antigens, 301
Ageing:
  expanded null cell compartments, 353
Allergenic epitopes:
  Rye I allergen, monoclonal antibodies to, 309
Antigenic determinants:
  common, on IgE binding factors and lymphocyte Fc receptors, 569
Anti-H-Y reactivity, 401
Anti-idiotypic suppressor factors:
  specificity of, 365
Anti-phosphoryl choline antibodies:
  Ig class distribution, in nematode-infected mice, 633
Autoantibodies to intermediate filament proteins in human visceral leishmaniasis, 583
Autoimmune disease:
  of NZB/W mice, effects of LS-2616, 589

Basophilic cells:
  large immature, histamine-containing, 549
B-cell activation:
  by Con A, 15
B-cell growth factor:
  substituted by monoclonal antibody NIM-R3, 7
B-cell lymphoma defects in MHC antigen expression, 411
B-cell maturation:
  association with EB virus induction, 405
B-lymphocyte surface antigen, 1
Burkitt's lymphoma:
  spontaneous variants, MHC class II and immunoglobulin expression, 603
Ca^{2+} flux:
  regulation by phorbol ester during cell killing, 347
C3-independent haemolysis:
  membrane attack complex formation, 147
CD3:
  rhesus monkey, polymorphism, 611
Chagas' disease:
  immunosuppression in, overcome by repeated antigenic stimulation, 289
Chlorhexidine:
  antibody responses to, 459
Cholera toxin:
  adjuvant properties on mucosal responses to oral antigens, 301
  secretory IgA antibodies to, induced by a synthetic peptide, 129
Class II genes, RT1:
  differential expression in fibroblast cell lines, 29
Class II MHC molecules:
  on sheep lymphocytes, following antigen stimulation *in vivo*, 433
Complement killing:
  by producing transmural pores, 139
Complement receptor 3 (CR3):
  rabbit, recognition by monoclonal antibody, 419
Contact sensitivity:
  effect of cyclosporin A, 503
Cyclosporin A:
  effect on murine B-cell responses, 203
  in contact sensitivity, 503
Cytotoxicity:
  antibody-dependent and -independent, of spleen cells for *Plasmodium berghei in vitro*, 283
  natural, of spleen for *Plasmodium berghei in vitro*, 277
Cytotoxic T lymphocytes:
  triggering, by activators of protein kinase C, 359

Delayed-type hypersensitivity:
  differing roles of dendritic cells and macrophages, 229
  modulation of T-cell activity, 379
Dendritic cells:
  and initiation of contact sensitivity, 509
  macrophages, roles in induction of delayed-type hypersensitivity, 229

EB virus:
  induction associated with B-cell maturation, 405
Elutriation:
  isolation of human monocyte subsets, 95
Epidermis, human:
  MHC class II expression, 223
Epithelial cells:
  elemental concentrations of types 2 and 3 in rat thymus, 491

Fat:
  dietary, influence on autoimmune disease in MRL/*lpr*/*lpr* mice, 439
Fcγ receptor expression:
  restored by normal human serum, 239
Foot-and-mouth disease virus:
  immune response to, 261

Giardia muris:
  killing by lymphoid cells, 269
Granulocyte cytotoxicity:
  enhanced by mediators from anti-IgE-stimulated leucocytes, 87

H-2 gene control:
  of antibody responses to protein antigens of *M. tuberculosis*, 329
Heymann nephritis:
  circulatory antigen, 451
HLA antigen:
  novel, on trophoblast and choriocarcinoma cell line, 595
Human T-cell killing of anti-T-cell receptor hybridoma, 383

Ia antigen expression:
  in tumour-associated macrophages, 527
IgA1, human:
  production and characterization of pepsin fragments, 153
IgE and IgG anti-hapten responses, 459
Immunoglobulin E binding factors:
  antigenic determinants common with those on Fc receptors, 569
Immunoglobulin E responses:
  suppression by hyperimmune serum, 577
Immunoglobulin G secretion:
  from a B-cell tumour line, induced by Con A, 15
Immunoglobulin structure:
  effect on macrophage binding to planar lipid monolayers, 235
Immunosuppression:
  in Chagas' disease, overcome by repeated antigenic stimulation, 289
Inflammatory mediators:
  induced by *E. coli* strains with different adhesins, 541
Influenza virus:
  specific cytotoxic T-cell recognition, 173

Interferon-γ:
recombinant, activation of macrophages to inhibit *M. tuberculosis*, 333
Interleukin-1:
activity in tumour-associated macrophages, 527
murine, characterization of goat antibodies to, 535
Interleukin-2:
and long-term growth of human T cells, 57
effect on polyclonal B-cell activation, 485
human recombinant, induction of non-specific killer cells, 251
production in lymphadenopathy, 627
receptor expression in lymphadenopathy, 627
receptor induction by calcium ionophore and phorbol ester in MRL mice, 43
treatment *in vitro* breaks tolerance, 159
Interleukins:
role in synergistic effect of B-cell mitogens with concanavalin A on thymic cell activation, 209
Intestinal processing:
effect on immunogenicity of ovalbumin, 295
Intraepithelial lymphocytes:
functional characterization, 389
porcine, morphology and functional characteristics, 109

Lambda chains:
subpopulations defined by monoclonal antibodies, 467
Leishmaniasis, human, visceral:
autoantobodies to intermediate filament protein, 583
Leucocyte differentiation antigen:
p150/95, monoclonal antibody to, 427
Leukotriene B_4 and migration of fish leucocytes, 563
Light chain, of human rheumatoid factor:
restricted subgroup expression, 473
Lymphokines:
Con A-induced, effects on human monocyte function, 245
Lyt 2 antigen expression:
in vivo modulation by anti-Lyt 2 antibody, 181

Macromolecular insoluble cold globulin (MICG):
a marker shared by NK and ADCC cells but not NC cells, 101
Macrophage activating factor(s) and resistance to *M. lepraemurium*, 339
Macrophage binding, to supported monolayers:
effect of IgG structure, 235
Macrophages:
activation by recombinant interferon-γ to inhibit *M. tuberculosis*, 333
MHC antigens in mediastinal B-cell lymphoma, 411
MHC class II antigen and immunoglobulin expression: in variants of Burkitt's lymphoma, 491
MHC class II expression:
in normal human epidermis, 223
Migration:
of bone marrow lymphocytes, 217
Mixed leucocyte reaction:
in channel catfish, 123
Monocytes:
human, inhibition by pneumolysin, 515
subsets, isolation by elutriation, 95
Mononuclear phagocyte function:
effect of immune complex infusion, 81
effects of *in vivo* complement activation, 75
MRL mice:
influence of dietary fat on autoimmune disease, 439
T-cell hyporesponsiveness, 187
MRL/MP-lpr/lpr mice:
synergistic induction by calcium ionophore and phorbol ester of IL-2 receptor, IL-2 production and proliferation, 43
Mucosal lymphocytes:
in situ phenotypical characterization, 397
Mycobacterium lepraemurium infection:
lymphokine release, 339

Neutrophils:
role of opsonins in vacuolar sealing and ingestion of zymosan, 69
NK cells and T cells in ageing, 353
Non-specific killer cells:
induced by human recombinant IL-2, 251

Opsonins:
role in vacuolar sealing and ingestion of zymosan by human neutrophils, 69
Ovine cell antigens, 631

Passive immunity:
impairs anti-viral T-cell response, 37
Pepsin fragments, of human IgA1:
production and characterization, 153
Phorbol ester:
regulation of Ca^{2+} flux during cell killing, 347
Phylogeny of lymphocyte heterogeneity:
MLR in channel catfish, 123
Plasmodium berghei:
antibody-dependent and -independent cytotoxicity of spleen cells, 283
natural cytotoxicity of spleen cells, 277
Pneumolysin:
inhibition of human monocyte function, 515
Pore formation:
in *E. coli* membranes by complement, 139
Pregnancy:
immune protective mechanisms against *Listeria monocytogenes*, 373
Prostaglandin E_2 and thromboxane A_2:
synthesis kinetics and immunoregulatory effects, 557
Protein kinase C:
in triggering of cytotoxic T lymphocytes, 359
Purine nucleoside phosphorylase deficiency, 63

Rabbit cells:
characterization of antigen markers, 115
Rheumatoid factor:
human, restricted light-chain subgroup expression, 473

Serum amyloid P component:
guinea-pig, isolation and characterization, 317
Silica:
effect on phagocytosis and bactericidal activity of macrophages and neutrophils, 521
SJL mice:
immunological defects, 445
Solid-phase antigen:
T-cell responses to, 167
Suppressor factors:
anti-idiotypic, specificity of, 365
Synthetic peptide, cholera toxin:
induction of IgA antibodies, 129

T-cell activity:
modulated by DTH, 379
T-cell alloantigen:
rat, RT-6.2, characterization, 195
T-cell clones:
cytotoxic, specific for influenza nucleoprotein, 173
T-cell hyporesponsiveness:
in MRL congenic mice, 187
T-cell receptor β chains:
expression during fetal thymus development, 23
T-cell responses:
anti-viral, impaired by passive immunity, 37
to solid-phase antigen, 167
to soluble protein antigens and fixed antigen-presenting cells, 51
T cells, human:
long-term growth, 57
Tolerance:
broken by IL-2 treatment, 159
Trophoblast, human:
cell surface antigens, 135
Tuberculin skin test:
pH changes in dermis, 497
Tumour necrosis factor:
involvement in monocyte killing of sarcoma cells, 323

Vitamin D_3:
active metabolite, regulation of T-cell proliferation, 479